INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/016586

	CATION OF SUBJECT MATTER F16K31/06			
According to Into	ernational Patent Classification (IPC) or to both nationa	I classification and IPC		
B. FIELDS SE	ARCHED			
Minimum docum Int.Cl ⁷	tentation searched (classification system followed by cl F16K31/06, C22C38/00	assification symbols)		
Documentation s Jitsuyo Kokai Ji	1996-2004 1994-2004			
Electronic data b	ase consulted during the international search (name of	data base and, where practicable, search to	erms used)	
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		Ţ	
Category*	Citation of document, with indication, where ap	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.	
Y	Microfilm of the specification annexed to the request of Jap Model Application No. 71245/1 No. 186873/1986) (CKD Corp.), 21 November, 1986 (21.11.86), Page 5, lines 4 to 8, 12 to 1 (Family: none) JP 2002-357280 A (CKD Corp.) 13 December, 2002 (13.12.02), Full text; Fig. 1 (Family: none)	panese Utility 1985(Laid-open 14; Fig. 1	1-3	
× Further doc	cuments are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 27 December, 2004 (27.12.04)		Date of mailing of the international search report 18 January, 2005 (18.01.05)		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No. Telephone No. Form PCT/ISA/210 (second sheet) (January 2004)				

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		FCI/OF2	2004/016586
C (Continuation).	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	JP 3-115546 A (Carpenter Technology Corp.), 16 May, 1991 (16.05.91), Page 2, upper right column, line 17 to lower left column, line 6 & US 4994122 A & DE 4021781 A		2-3
Y	JP 5-263958 A (Danfoss A/S), 12 October, 1993 (12.10.93), Column 7, lines 4 to 10; Fig. 1 & US 5310160 A & DE 4201449 A & FR 2686387 A		1-3
Y	<pre>JP 63-13975 A (Toshiba Corp.), 21 January, 1988 (21.01.88), Full text; Figs. 1 to 2 (Family: none)</pre>	anuary, 1988 (21.01.88), text; Figs. 1 to 2	
A	JP 60-151477 A (Kabushiki Kaisha Fuji De Sogo Kenkyusho), 09 August, 1985 (09.08.85), Page 2, upper right column, line 13 to left column, line 2 (Family: none)		1-3
A	JP 11-82800 A (Unisia Jecs Corp.), 26 March, 1999 (26.03.99), Column 5, lines 13 to 28; Figs. 2 to 4 (Family: none)		1-3